

## AN ETHER LAUNCH.

Completed and Tried Successfully Yesterday.

Mr. W. I. Twombly's Ether Engine and its Possibilities—The Ether Bicycle Soon To Be Built—A Company To Be Formed With \$500,000 Capital To Push This New Substitute for Steam.

The readers of the PRESS will remember that a short time ago, there was published in this paper a description and illustration of an "ether bicycle," so called: that is, a bicycle, weighing sixty pounds, and propelled by a mechanism, invented by Willard I. Twombly, of this city, wherein the vapor of ether is used instead of steam.

It was found that because of the rush of business in the great bicycle manufactory that it was not possible to get this new machine built as soon as was desired and Mr. Twombly and the Portland men who are backing him resolved to try the use of ether as a motive power in a boat.

Yesterday this ether launch was finished and put into the water and tried. The hull was built by B. A. Jacobs, and the machinery by H. R. Stickney. The boat is 16 feet long, 4 1/2 feet beam, 24 inches deep amidships and draws 16 inches at the stern.

The illustration gives a good idea of the machinery. The large, upright cylinder nearest the stern, corresponds to the boiler of a steam engine. Inside the brass jacket is a coil of pipe. The ether enters at the top, being pumped from a tank in the bow, as it passes down the coil, heated by burning naphtha, supplied by force of gravity from another tank in the bow, it is converted into vapor and as such passes up a straight pipe, through the middle of the coil, and over into the engine. From there it passes down through a pipe under the boat along the keel and up into the tank again by virtue of suction induced by the same pump that forces it into the coil. The cold water condenses the vapor into liquid ether, while in the pipe along the keel.

Ether is vaporized at only 96 degrees of heat, while water requires 212. It condenses almost as easily as it vaporizes and would condense in the engine after coming from the boiler, but for the method devised by

bulk. Therefore, the smokestack is over the engine instead of the boiler. A prominent machinist says that this is a good idea for steam boilers, because steam loses some of its power by condensing, when passing into the engine.

But what are the virtues of this ether engine? In the first place since ether is vaporized at such a low temperature the expense of operating is about half that of steam. A gallon of water weighs nine pounds, and one of ether six pounds, yet



MR. W. I. TWOMBLY.

the ether when turned into gas, expands one-third more than water.

Besides this saving in expense this ether launch is the lightest in existence. A naphtha launch of the same size, hull and same horse power (which is three) weighs about 800 pounds. This launch weighs a little over 400. There is that difference in the machinery.

Also ether will not corrode any metal and keeps the machinery well oiled inside, a prominent virtue.

A naphtha launch must go at a certain rate of speed, unless the pumps are changed, a process requiring some half hour's work, and then a new unchangeable rate of speed is established. This launch can be regulated to any speed, like a steam engine.

The trial trip yesterday was entirely satis-

factory as far as the practical working of the mechanism was concerned. Mr. Twombly says that the launch developed a speed of eight miles an hour and expects better things when the machinery is perfected. An ordinary little steam engine had been built and the piston was as usual packed with rubber, but the ether eats

rubber, and there was soon a leak around the piston.

Another engine will be used—a rotary engine with a steam-tight packet, so that any leaking will be impossible.

We are authorized by Mr. Twombly to say that the bicycle will be built just as soon as possible, that a company is being formed in this city among some of our leading business men, and that next year this company will begin operations in this city, with a capital of \$500,000, and manufacture ether launches and ether bicycles. Frank & Larrabee are the lawyers who are forming the corporation.

Mr. Twombly's patents cover the use of ether as a motive power, since this is the first time it has ever been used for that purpose. The patents have not been granted as yet, but Clifford & Verrill, the solicitors, say that there is no doubt; they will be.

How does it happen that Mr. Twombly made this use of ether? He is a young man, who four years ago was a draughtsman at the Thompson, Houston Electric Works in Lynn. He intended to make electrical engineering his profession, but his health failed and he was obliged to give it up. He went into the insurance business, and came here and organized the Washington Casualty Insurance company, of which he is secretary and general manager. He has kept up his engineering studies all the time, however. For several years, he has been endeavoring to perfect some kind of a motor bicycle. He got a steam engine machine all worked out in every detail and there was little doubt but that it would work, but the machine would have to weigh 200 pounds.

He took his design to Mr. George F. Morse, president of the Eastern Force company, and asked him his opinion as an engineering expert. Mr. Morse said that the machine would work all right, but that the weight made it impracticable. He advised Mr. Twombly to endeavor to use some chemical in place of steam.

Mr. Twombly began to experiment. He first tried ammonia, which vaporizes at 160 degrees, but that corroded the metal so that it couldn't be used. Then he tried landnium, which vaporized at 180 degrees, but that proved to be utterly impracticable. Finally he tried ether, and the result has been told in the above article, and that descriptive of the bicycle, published some time ago.

## AT THE HEADQUARTERS.

Business Meeting Yesterday of the Seventh Maine Regimental Association—Who Were There.

The white cross flag of the Sixth Army Corps, and the flag of the association showed to old soldiers yesterday that the veterans of the Seventh Maine Regimental Association were in session. There are but a few of the veterans of that association left, but they gathered fairly well, considering the circumstances, and when Secretary W. D. Hatch called the roll at the business meeting yesterday afternoon, over which President Waterhouse presided, the following answered to their names: George F. Hunt of Westbrook, W. D. Hatch of Portland, C. H. Waterhouse of Cape Elizabeth, John Oakes of Portland, Elen True of East Deering, George R. Boyer of Somerville, Mass., J. E. Foster of Portland, William Pool, U. S. N., Lynn, Mass., Melvin Curtis of Whitman, Mass., F. L. Oakes of Portland, John Curtis of Whitman, Mass., Lieutenant William H. Motley of Deering, James S. Connor of Fairfield, Nathaniel Young of West Paris, Charles Jones of Barre, Vt., James H. Goss of Brookline, Mass., William J. Rowe of Vassalboro, James Williams of South Paris, Hiram Elliot of South Portland, Dr. S. C. Norcross of Lewiston, John Mullen of Portland, Jabez Eveleth of Portland, Lieutenant John H. Fogg of Portland, A. A. Stevens of Deering, Robert A. Downing of Brunswick, Dr. J. H. Sphers of Cape Elizabeth, Samuel Morrison of Mount Pleasant, Mich., Lieutenant George W. Knight of Portland, Frank Haynes of Passadunkang, L. L. Thurston of Portland.

Other comrades are expected tomorrow and it is more than probable that the attendance will be much better than the average.

The thanks of the association were returned to Mrs. A. H. Lindsey of Portland for a copy of the large engraving "Sherman's March to the Sea," now in the hall of the association.

Remarks were then made by Dr. Norcross of Lewiston and Charles U. Jones of Vermont, and John H. Fogg, Esq., of Portland talked in an interesting way of war times, and referred feelingly to the comrades who will no more answer to their names.

Letters were then read from several members of the association who were unable to be present.

Brevet Brigadier General Edwin C. Mason, colonel of the Third Infantry, U. S. A., with headquarters at Fort Snelling, Minn., regretted that he was unable to visit Maine this year, and expressed his continued interest in the association, and in all the members of the old regiment. General Mason was formerly colonel of the Seventh Maine.

Dr. H. P. Fernald wrote from Chelsea, England, where he is now in business as a dentist, and John R. Anthoine of New York sent a pleasant note of regret at being unable to be present at the annual meeting.

The following were then elected officers of the association:

President—Dr. S. C. Norcross of Lewiston.

Vice Presidents—George R. Boyer of Somerville, Mass., George H. Fogg of Portland.

Secretary and Treasurer—W. D. Hatch of Portland.

Quartermaster—George F. Hunt of Westbrook.

Chaplain—A. A. Nickerson of Portland.

Surgeon—Dr. J. H. Sphers of Cape Elizabeth.

Poet and Historian—W. D. Hatch of Portland.

President Waterhouse, then gracefully returned thanks to the association for the manner he had been supported while discharging the duties of his office, and asking for the same cordial support for his successor, Dr. Norcross.

A meeting of the building association, having in charge the building and other property of the association, was then held, and the following officers were elected:

Treasurer—A. A. Stevens.

Directors—W. D. Hatch, Elen True, John Oakes and George F. Hunt.

A president of the association will be chosen by the directors.

Today will be the real "campfire" of the reunion. The ladies will be present, and speeches will be in order after dinner. The poet of the association, Mr. W. D. Hatch, has written, and all present will unite in singing the annual hymn, a never omitted feature of the reunion.

## OBITUARY.

George G. Green. Mr. George G. Green, for many years a well known business man of Portland, died Tuesday night at 6.30 o'clock, at the residence of his daughter, Mrs. Neal Van Horne, in Deering. Mr. Green was born in St. John, N. B., Jan. 17, 1807. He was educated in the schools of St. John, and learned the trade of shoemaker there. He came to Portland in 1823 and established himself in the retail shoe business on the corner of Franklin and Congress streets. Later he was of the firm of Bisbee & Green, on Federal street. At the time of his death he was again in business alone, occupying a store on Congress street between Casco and Brown. It was the spot where the Owen-More building now stands. When that building was built he moved to a location above Casco street, and remained until he retired, several years ago.

He joined Landmark Lodge of Masons in 1852, and was one of the most prominent as well as one of the oldest of the order here.

He was an ardent Republican, but never held office.

In religion he was a firm believer in Spiritualism, and was always an attendant at the meetings.

Mr. Green was a great walker, especially in his later years. At the age of 85 his favorite constitutional was from Woodfords into Portland and thence over the bridge into East Deering and around home by Ocean street. He was

## NEW ADVERTISEMENTS.

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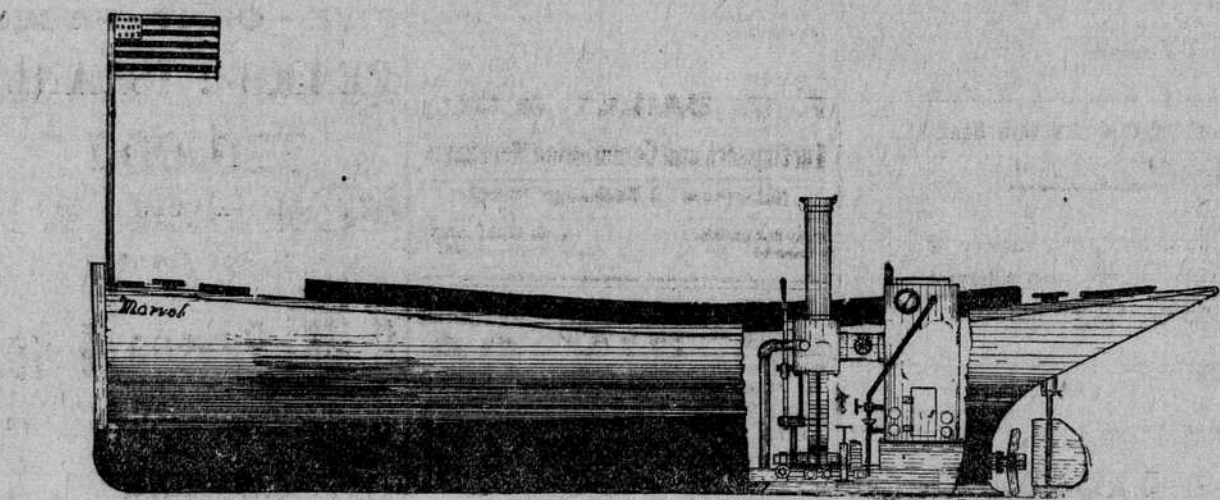
# MELLIN'S FOOD

has just been given the highest awards at the California Midwinter Exposition over all competitors: two Gold Medals and also two special Diplomas of Honor—the highest honors conferred by the Exposition. No other Infant and Invalid's food in the World received this endorsement.

A seventy-two page book, bound in cloth, entitled "The Care and Feeding of Infants," will be sent free to any mother requesting it.

DOLIBER-GOODALE CO.;

291 Atlantic Avenue, Boston, Mass.



THE ETHER LAUNCH.

Mr. Twombly of heating the engine. There is a connecting cylinder, shown in the illustration, between the boiler, and the engine. The heat of the naphtha passes through this and not only prevents the condensing of the ether vapor, but superheats it and of course adds to its power, for vapor of ether when superheated expands to 5 times its

## THE DEMOCRATIC CAMPAIGN.

Ex Governor Russell, Josiah Quincy and Harvey Shepherd Are To Be Invited To Come Into Maine.

The Democratic campaign is yet in a formative period in this state. Mr. Johnson, candidate for Governor, is about ready to start out to deliver his sixteen speeches; but Chairman Hughes has not yet arranged for many speakers to back him. District Attorney Bradbury will probably make three or four speeches, but cannot be depended upon for many on account of his duties. Chairman Hughes has sent an urgent invitation to ex-Governor Russell, Josiah Quincy and Harvey Shepherd of Massachusetts, asking them to take part in the Maine campaign. No answer has been received from them as yet. It may be surmised that they will have their hands full in Massachusetts this fall, without expending any ammunition in Maine.

## MUNICIPAL COURT.

BEFORE JUDGE GOULD.

Wednesday—William Murphy, Cornelius Driscoll, Frank J. Clark, Augustus Lapoint, James Conney and Thomas E. Myers. Intoxication; each fined \$3 and costs.

Walter S. Lee. Intoxication; thirty days in the county jail.

John McGovern and John Mullen. Vagabond; each thirty days in the county jail.

William T. Smith. Vagabond; twenty days in the city house of correction.

Thomas E. Myers. Assault; fined \$1 and costs.

James W. Buck. Driving carriage without a license; fined \$5 and costs.

## The Mackerel Fleet.

The Elsie M. Smith, a Gloucester vessel, brought a small pod of 45 barrels of mackerel to Fernald's yesterday.

The Portland and Gloucester fleets are now on the Maine coast, between Portland and Mt. Desert; but find few fish.

The leading teachers of cookery and writers on Domestic Science use and recommend Cleveland's Baking Powder, as Mrs. Rover, the Principal of the Philadelphia Cooking School.



Miss Farmer, the Principal of the Boston Cooking School, Mrs. Bedford, the Superintendent of the New York Cooking School, Mrs. Ewing, the Principal of the Chautauque School of Cookery.

factory as far as the practical working of the mechanism was concerned. Mr. Twombly says that the launch developed a speed of eight miles an hour and expects better things when the machinery is perfected. An ordinary little steam engine had been built and the piston was as usual packed with rubber, but the ether eats

## Renovating the Grand Trunk Station.

The structure, which has covered the front of the Grand Trunk passenger depot, for many years, thirty at least, is being removed now, and a coat of paint, in red and brown colors, is taking its place. The change will be quite noticeable, and a welcome improvement. When this station was built, forty years or so ago, it was considered one of the finest in the New England States. It is built in strong, substantial style and after a liberal design. Of course it has grown dingy with age, and has been surpassed by the newer Union station; but it is yet a fine station.

## MUSIC AND DRAMA.

## The Side Show.

"The Side Show, or Wait for the Waggon" is said to be by far the best farce comedy in which James B. Mackie has ever appeared. When his successes in "A Bunch of Keys" and "Grimes's Cellar Door" are brought to mind it certainly seems as though the new play must contain some extraordinarily strong comedy situations to be superior to the others. One thing is sure, the piece made a great hit in Bangor Monday evening, for the papers of that city are full of its praises. The company came in for their share of the compliments also, the interpolated specialties all being mentioned as being particularly meritorious. This evening the star and his new play will appear at the Portland Theatre. Something novel is promised during the day in the way of a street advertisement.

## A Circus Clown.

George Richards and Eugene Canfield have become famous the past few years for their remarkable character creations in a number of Hoyt's pieces. Who that has ever seen Richards as "The Stranger" in "A Hole in the Ground," Deacon Tild in "A Midnight Bell," or Mink Jones in "A Temperance Town" can ever forget the dry, quaint manner in which he makes his lines so effective or that irresistible twinkle of the eye? As for Canfield, the mere mention of "Rats" in "A Tin Soldier," or "Bingo Jones" in "A Temperance Town" is sufficient to bring a smile, for his inexpressible comical facial expressions, his peculiar mannerisms and his irrepressible fund of humor always leave pleasant memories.

Saturday evening our theatre goes will get their first glimpse of them in new impersonations in their own production of the new comedy drama "The Circus Clown" at the Portland Theatre.

## The Pavilion.

"May Blossom" is one of the prettiest and cleanest little comedy dramas ever presented at McCallum's theatre at Peaks Island, and is crowding the house at every performance. Everybody should see it. Reserved seats can be had at Stockbridge's.

It is certainly a fact that Mr. Twombly is backed by some of our business men, whose names, however, we are not at liberty to print. If everything turns out, as Mr. Twombly claims, and believes, and there seems to be no reason why it shouldn't, there will be a new industry in Portland of important proportion, manufacturing the only ether engines in the world.

## CIRCUS DAY.

Cook & Whitby's Great Show in Portland Today.

Today Whitby & Cook's great Egnilsh circus and menagerie will be seen in Portland. The Pillsbury Press says: "This show more nearly realizes the highest ideal of all that a circus can be than any we have ever attended. The riding was superb, the races created great excitement, elicited tumultuous applause, while every act out of the hundred given appeared the best while you were looking at it, or, in other words, there was not a poor feature in the performance, which is more than we can say of any circus that has ever visited Pittsburgh.

"The parade in the morning was a revelation of wealth and splendor that fairly dazzled the beholders. The cost of such a display must be appalling, the dens and wagons being covered with ivory and glittering gold, every horse a thoroughbred, and all animals richly caparisoned in silk and satin—a solid mile of them altogether. The balloon ascensions took place in the afternoon, and combined with the splendid sharpshooting and other free exhibitions, vastly pleased the people who were just 'looking around.'"

"In fact, everything about this immense organization seems perfect, the uniformly courteous and quiet deportment of all employees was widely commented upon, and created the most favorable impression."

The route of the procession this morning will be from the Deering grounds up Green street to Cumberland, to New High to Congress street, to Monument square, through Middle to India, to Congress, to Preble, to the grounds. The procession will start at near 10.30 a. m. as possible.

Mr. Chilcote, the press agent, was in town last night, says that while they do not pretend to have a show as large as Forepaugh's or Barnum's, it is a first-class menagerie and circus, and perfectly clean and wholesome, this proving especially attractive to women and children.

## Deafness Cannot Be Cured

by local applications as they cannot reach the diseased portion of the ear. There is only one way to cure deafness, and that is by constitutional remedies. Deafness is caused by an inflammation of the mucous lining of the Eustachian tube. When this tube is inflamed you have a rumbling sound or imperfect hearing, and when it is entirely closed, deafness is the result, and unless the inflammation can be taken out of this tube restored to its normal condition, hearing will be destroyed forever; nine cases out of ten are caused by catarrh, which is nothing but an inflamed condition of the mucous surface.

We will give one Hundred Dollars for any case of Deafness caused by catarrh that cannot be cured by Hall's Catarrh Cure. Send for circular, free.

J. J. CHENEY & CO., Toledo, O. Sold by all druggists, 7-10.

also a great reader, and has read his PRESS regularly every morning for years, until, within two weeks of his death, failing health compelled him to give up all reading.

Mr. Green's wife died about three years ago. He leaves a daughter, Mrs. Van Horne, with whom he has made his home for the last five or six years, and a son, Mr. George Henry Green, who is a leading elder of the Shaker community at Alfred.

Mr. Green was a man of most lovable disposition, always kind and considerate.

The funeral will occur this afternoon at 2 o'clock from 66 South street, Deering.

## What a Congressman is Expected to Do.

To the Editor of the Press:

In passing through Washington street last evening, I met an acquaintance whom I had not seen for some time. He said I suppose you are all going for Tom Reed over to the Cape this year. I said "Yes, we are; Tom Reed is the best and the smartest man in Maine, and the Republican party of Maine has always had the honor of sending their best and smartest men to Washington, so we intend to do the same this year."

"Well," he said, "Will you tell me what Tom Reed has ever done for Portland."

I said, Mr. D.—, "What do you want done for Portland will you tell me?"

He said, "I want the Back Bay dug out and the horse cars run through Washington street."

"Well, Mr. McD—" I said, "I think when Mr. Reed gets home he will put a man to shovelling out the Back Bay and run a train of horse cars through Washington street."

Cape Elizabeth, Me.

E. W.

## MARRIAGES.

In Woodford, (Deering) Aug. 21, by Rev. J. G. Merrill, Fred H. Ames of Westbrook and Miss Avis E. Glidden of Woodford.

In Revere, Aug. 6, Henry Bushaw of Wytoppuck and Miss Edith South of Revere.

At Sandy Pt. Aug. 7, George E. Darling of Providence and Miss Margaret S. Rice of Brooklyn, N. Y.

In Sprague's Mills, Aug. 4, Fred S. Oldenburg and Miss Mary Whitaker.

## DEATHS.

In this city, Aug. 22, Ivory Linscott, aged 76 years 6 months.

(Prayers on Friday afternoon at 3 o'clock, at No. 47 Monument street. Burial at North Berwick on Saturday.)

In this city, Aug. 21, Bridget, wife of Michael Conney, aged 60 years.

(Funeral on Friday morning at 8.30 o'clock, from No. 36 Maple street. Requiem high mass at St. Dominic Church at 9 o'clock.)

In Chelsea, Aug. 17, Ambrose, daughter of Mr. and Mrs. Charles A. Bragg.

In Glenburn, Aug. 18, Josiah French.

In Chelsea, Aug. 17, Miss Florence F. Reed, aged 33 years.

In Augusta, Mrs. Frances Getchell, aged 72 years.

In La Grange, Aug. 15, Mrs. Catharine Bunker, aged 63 years.

In La Grange, Aug. 15, Miss Flavilla Wilkinson, aged 47 years.

H. E. MILLS, Piano Tuner. Order Slate at Chandler's Music Store 431 Congress Street.

## Republican Rally. Manson G. Larrabee.

MONDAY EVENING, AUG. 27,

— AT —

City Hall, Portland,

AT 8 O'CLOCK.

## The Famous

GALUSHA A. GROW,

of Pennsylvania, Ex-Speaker

of the House, and

V. B. DOLLIVER, of Iowa,

will address the meeting.

Capt. H. H. SHAW will preside.

Chandler's Band.

## AUTUMN

FOILAGE

— IN THE —

WHITE MOUNTAINS.

SEE IT

NEXT SUNDAY.

## EXCURSION

— VIA —

Maine Central Railroad.

SPECIAL TRAINS AND LOW RATES.

Leave Portland 9 a. m. \$1.50

" Auburn 7.48 a. m. } \$2.00

" Lewiston 7.45 " }

Other stations in proportion.

See large bills for particulars.

PAYSON TUCKER, V. P. & Gen'l Man.

F. E. BOOTHBY, G. P. & T. A.

\$1.50.

aug23

W. Th. F. & S. H.



## NEW AUTUMN Dress Goods.

One lot All Wool Imported Novelties, special Middle street price,

39 Cents.

You will see no better goods at 50c.

One lot 40 inch French Novelties, very choice line of colorings,

For 50c Yard.

Black Silk Finished Henrietta, a very fine finish and beautiful luster, 100 quality,

For 75c Yard.

BASEMENT.

One case yard wide Fruit of the Loom Remnants,

7 1-2c Yard.

We have left about 100 Clothes Baskets in Willow, Rattan and Splint—you choice from the lot—at just

One-Half Price.

Must be closed this week.

Gentlemen's White Shirts.

A Perfect Fitting Shirt is the SENATOR.

\$1.00 Each.